

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

FIGURE 1

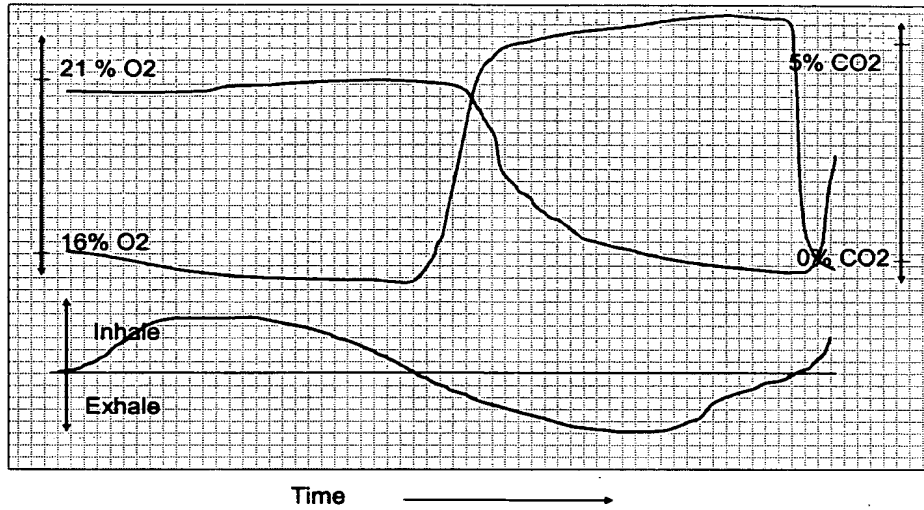


FIGURE 2

	Athletic Volunteer							
	Resting Condition							
		Clinical Measurement			Computed using Invention			
			Water Saturated	R	Dry Equivalent	Difference	RET	RET-R
		Inspired	End Tidal		End Tidal			error
Run 1	Oxygen	159.6	103	0.67	109.79	49.81	0.71	0.04
	CO2	0	33		35.18	35.18		
Run 2	Oxygen	159.6	94	0.67	100.20	59.40	0.65	-0.02
	CO2	0	36		38.37	38.37		
Run 3	Oxygen	159.6	101	0.71	107.66	51.94	0.70	-0.01
	CO2	0	34		36.24	36.24		
Run 4	Oxygen	159.6	112	0.80	119.38	40.22	0.80	-0.00
	CO2	0	30		31.98	31.98		
				=			=	=
			Average	0.71		Average	0.71	-0.00

FIGURE 3

	Normal Man							
	Resting							
		Clinical Measurement			Computed using Invention			
			Water Saturated	R	Dry Equivalent	Difference	RET	RET-R
		Inspired	End Tidal		End Tidal			error
Run 1	Oxygen	159.6	112	0.94	119.38	40.22	0.93	-0.01
	CO2	0	35		37.31	37.31		
Run 2	Oxygen	159.6	105	0.81	111.92	47.68	0.85	0.04
	CO2	0	38		40.50	40.50		
Run 3	Oxygen	159.6	105	0.81	111.92	47.68	0.83	0.02
	CO2	0	37		39.44	39.44		
Run 4	Oxygen	159.6	103	0.76	109.79	49.81	0.81	0.05
	CO2	0	38		40.50	40.50		
Run 5	Oxygen	159.6	102	0.76	108.72	50.88	0.80	0.04
	CO2	0	38		40.50	40.50		
Run 6	Oxygen	159.6	106	0.88	112.99	46.61	0.85	-0.03
	CO2	0	37		39.44	39.44		
				=			=	=
			Average	0.83		Average	0.84	0.01

FIGURE 4

	Normal Man							
	2 Min after starting Exercise							
	Heart Rate							
	183							
	Work output 40 - 80 Watts							
		Clinical Measurement			Computed using Invention			
			Water Saturated	R	Dry Equivalent	Difference	RET	RET-R
		Inspired	End Tidal		End Tidal			<i>error</i>
Run 1	Oxygen	159.6	101	0.84	107.66	51.94	0.86	0.02
	CO2	0	42		44.77	44.77		
Run 2	Oxygen	159.6	101	0.87	107.66	51.94	0.84	-0.03
	CO2	0	41		43.70	43.70		
Run 3	Oxygen	159.6	102	0.88	108.72	50.88	0.88	-0.00
	CO2	0	42		44.77	44.77		
Run 4	Oxygen	159.6	100	0.90	106.59	53.01	0.88	-0.02
	CO2	0	44		46.90	46.90		
Run 5	Oxygen	159.6	103	0.92	109.79	49.81	0.92	0.00
	CO2	0	43		45.83	45.83		
							=	=
			Average	0.88		Average	0.88	-0.00

FIGURE 5

	Normal Man							
	5 Min after starting Exercise							
	Heart Rate 195 - 207							
	Work output 100 - 140 Watts							
		Clinical Measurement			Computed using Invention			
			Water Saturated	R	Dry Equivalent	Difference	RET	RET-R
		Inspired	End Tidal		End Tidal			error
Run 1	Oxygen	159.6	107	1.02	114.05	45.55	1.01	-0.01
	CO2	0	43		45.83	45.83		
Run 2	Oxygen	159.6	106	1.06	112.99	46.61	0.98	-0.08
	CO2	0	43		45.83	45.83		
Run 3	Oxygen	159.6	107	1.03	114.05	45.55	1.01	-0.02
	CO2	0	43		45.83	45.83		
Run 4	Oxygen	159.6	108	1.10	115.12	44.48	1.03	-0.07
	CO2	0	43		45.83	45.83		
Run 5	Oxygen	159.6	109	1.07	116.19	43.41	1.03	-0.04
	CO2	0	42		44.77	44.77		
							=	=
				1.06		Average	1.01	-0.04

FIGURE 6

	Normal Man							
	9 Min after starting Exercise							
	Heart Rate 213-225							
	Work Output 180 - 200 Watts							
		Clinical Measurement			Computed using Invention			
			Water Saturated	R	Dry Equivalent	Difference	RET	RET-R
		Inspired	End Tidal		End Tidal			<i>error</i>
Run 1	Oxygen	159.6	112	1.18	119.38	40.22	1.11	-0.07
	CO2	0	42		44.77	44.77		
Run 2	Oxygen	159.6	112	1.21	119.38	40.22	1.11	-0.10
	CO2	0	42		44.77	44.77		
Run 3	Oxygen	159.6	115	1.28	122.58	37.02	1.15	-0.13
	CO2	0	40		42.64	42.64		
Run 4	Oxygen	159.6	119	1.34	126.84	32.76	1.20	-0.14
	CO2	0	37		39.44	39.44		
Run 5	Oxygen	159.6	118	1.36	125.78	33.82	1.17	-0.19
	CO2	0	37		39.44	39.44		
							=	=
			Average	1.27		Average	1.15	-0.12

FIGURE 7

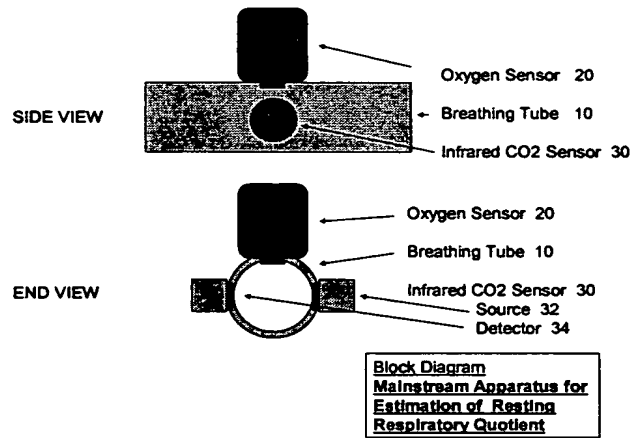


FIGURE 8

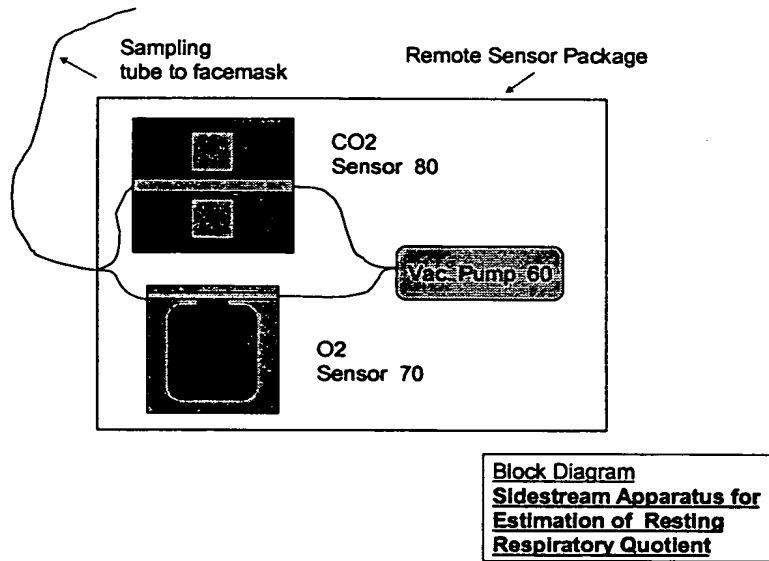


FIGURE 9

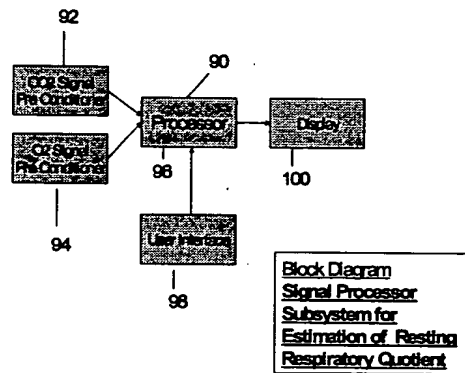


FIGURE 10

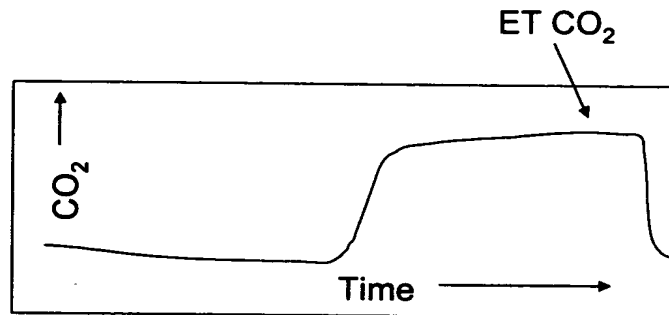


FIGURE 11

